Journal of Neuroscience Methods, 31 (1990) 259–260
Elsevier

Contents of Volume 31

Number 1 – January 1990

Research papers

Fiberoptic intracranial pressure monitoring in rats
J. Verlooy, P. Selosse, J. Van Reempts, M. Haseldonckx and M. Borgers (Belgium) 1

Effect of *p*-mercuribenzoate on the subestimation of angiotensin-converting enzyme measurement during chick retina development
M.L. Nunes-Mamede, F.G. De Mello and A.R. Martins (Brasil) 7

The cone field: a spatial discrimination task for the automatic and simultaneous assessment of working and reference memory in rats
F.J. Van der Staay, B. Krechting, A. Blokland and W. Raaijmakers (The Netherlands) 13

Quantal vs. graded generalization in drug discrimination: measuring a graded response
D.A. Mathis and M.W. Emmett-Oglesby (U.S.A.) 23

Evaluation of horseradish peroxidase as an intracellular stain in electrophysiological recording
A. Ball, J. Ammermüller and R. Weller (Canada, F.R.G.) 35

Progressive incorporation of propidium iodide in cultured mouse neurons correlates with declining electrophysiological status: a fluorescence scale of membrane integrity
J.D. Mackis and R.D. Madison (U.S.A.) 43

Automated determination of excitatory amino acid neurotoxicity in cortical culture
J.G. Klingman, D.M. Hartley and D.W. Choi (U.S.A.) 47

Stereotaxic preparation of circumscribed cortical areas from rat brain for biochemical studies
U.-K. Hanisch, T. Rothe, H.H. Webster, W. Härtig and D. Biesold (G.D.R.) 53

Purification and polypeptide composition of corpora amylacea from aged human brain
A. Steyaert, S. Cissé, Y. Merhi, A. Kalbakji, N. Reid, D. Gauvreau and G. Lacoste-Royal (Canada) 59

Post-fixation horseradish peroxidase tracing in rat fetus and pups
C. Van der Togt and H.K.P. Feirabend (The Netherlands) 65

A statistical test for demonstrating a presynaptic site of action for a modulator of synaptic amplitude
J.D. Clements (U.S.A.) 75

Number 2 – February 1990

Research papers

A pipette holder for use in patch-clamp measurements
H.P. Buisman, A. De Vos and D.L. Ypey (The Netherlands) 89

An efficient method for estimating the total number of neurons in rat brain cortex
L. Korbo, B. Pakkenberg, O. Ladefoged, H.J.G. Gundersen, P. Arlien-Søborg and H. Pakkenberg (Denmark) 93

Beam-walking in rats: studies towards developing an animal model of functional recovery after brain injury
L.B. Goldstein and J.N. Davis (U.S.A.) 101

Automatic classification and analysis of microneurographic spike data using a PC/AT
C. Forster and H.O. Handwerker (F.R.G.) 109

Computer programs for the analysis of immunohistochemically labeled spinal cord sections
E.M. Johnson and E. Bullitt (U.S.A.) 119

D-Tartrate alters uptake of [^{3}H]dopamine into brain synaptic vesicles
M.E.A. Reith, H.K. Kramer, H. Sershen and A. Lajtha (U.S.A.) 133

Development of a computer program classifing rat sleep stages
N. Itowi, A. Yamatodani, S. Kiyono, M. Hiraiwa and H. Wada (Japan) 137

Operant conditioning of H-reflex in freely moving monkeys
J.R. Wolpaw and P.A. Herchenroder (U.S.A.) 145

Image analysis of CNS neurotrophic factor effects on neuronal survival and neurite outgrowth
T. Matsumoto, K. Oshima, A. Miyamoto, M. Sakurai, M. Goto and S. Hayashi (Japan) 153
Long term recordings in the cat motor cortex: unit activity and field potentials from sensory and brain stem stimulation as a means of identifying electrode position
C.I. Palmer (Switzerland) 163

Number 3 – March 1990

Research papers
A simple rapid method to slice biological specimens: an application for non-embedded and embedded Golgi-stained tissue
E. Kolodziejczyk, P. Serrant and M.-R. Fernandez-Graf (Switzerland) 183
Brain amino acid concentrations in rats killed by decapitation and microwave irradiation
J.M. Miller, R.S. Jope, T.N. Ferraro and T.A. Hare (U.S.A.) 187
Choline oxidase chemiluminescent assay, after removal of eserine from medium, of acetylcholine released in vitro from brain slices
M.A.M. Prado, T. Moraes-Santos, R.N. Freitas, M.A.R. Silva and M.V. Gomez (Brazil) 193
A new system for computer-assisted quantitative receptor autoradiography
L. Segu, P. Rage and P. Boulenguez (France) 197
Ion-selective microelectrodes suitable for recording rapid changes in extracellular ion concentration
R. Wen and B. Oakley II (U.S.A.) 207
Design of a microprocessor-controlled thermoregulated chamber for perfusing in vitro mammalian brain preparations
M. Mühlethaler, P. Cand, R. Henauer and M. Serafin (Switzerland) 215
Measuring threshold of reinforcing brain stimulation by the method of constant stimuli
W. Buscher, U. Wagner and J.P. Huston (F.R.G.) 225
A system for the reconstruction and analysis of dendritic fields
M. Lowndes, D. Stanford and M.G. Stewart (U.K.) 235

Book review 247

Announcement 249

Corrigenda 251

Erratum 253

Author Index (Vol. 31) 255

Subject Index (Vol. 31) 257